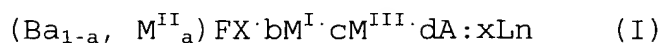


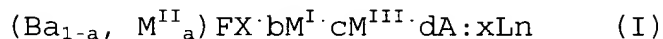
fluoro-halide based phosphor, represented by a constitutional formula (I) as follows:



wherein,  $M^{II}$  indicates at least one kind of alkaline earth metal selected from the group consisting of Sr, Ca, and Mg;  $M^I$  indicates at least one kind of alkali metal selected from the group consisting of Li, Na, K, Rb, and Cs;  $M^{III}$  indicates at least one kind of trivalent metal selected from the group consisting of Al, Ga, In, Tl, Sc, Y, Cd, and Lu, wherein compounds that contain  $M^{III}$  exclude  $Al_2O_3$ ; X indicates at least one kind of halogen selected from the group consisting of Cl, Br, and I; Ln indicates at least one kind of rare earth element selected from the group consisting of Ce, Pr, Sm, Eu, Gd, Tb, Dy, Ho, Nd, Er, Tm, and Yb; A indicates at least one kind of metallic oxide selected from the group consisting of  $Al_2O_3$ ,  $SiO_2$ , and  $ZrO_2$ ; and a, b, c, d and x are respectively set so as to satisfy relational expressions  $0 \leq a \leq 0.3$ ,  $0 \leq b \leq 2$ ,  $0 \leq c \leq 2$ ,  $0 \leq d \leq 0.5$ , and  $0 < x \leq 0.2$ .

18. (Amended) A method for manufacturing a radiation image conversion panel according to claim 14, wherein the step of

dispersing includes providing a calcined product of a stimuable phosphor that is a rare earth-activated alkaline earth metal fluoro-halide based phosphor, represented by a constitutional formula (I) as follows:



wherein,  $\text{M}^{\text{II}}$  indicates at least one kind of alkaline earth metal selected from the group consisting of Sr, Ca, and Mg;  $\text{M}^{\text{I}}$  indicates at least one kind of alkali metal selected from the group consisting of Li, Na, K, Rb, and Cs;  $\text{M}^{\text{III}}$  indicates at least one kind of trivalent metal selected from the group consisting of Al, Ga, In, Tl, Sc, Y, Cd, and Lu, wherein compounds that contain  $\text{M}^{\text{III}}$  exclude  $\text{Al}_2\text{O}_3$ ; X indicates at least one kind of halogen selected from the group consisting of Cl, Br, and I; Ln indicates at least one kind of rare earth element selected from the group consisting of Ce, Pr, Sm, Eu, Gd, Tb, Dy, Ho, Nd, Er, Tm, and Yb; A indicates at least one kind of metallic oxide selected from the group consisting of  $\text{Al}_2\text{O}_3$ ,  $\text{SiO}_2$ , and  $\text{ZrO}_2$ ; and a, b, c, d and x are respectively set so as to satisfy relational expressions  $0 \leq a \leq 0.3$ ,  $0 \leq b \leq 2$ ,  $0 \leq c \leq 2$ ,  $0 \leq d \leq 0.5$ , and  $0 < x \leq 0.2$ .